ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

OMB No. 1901-0288 Approval Expires: 05/31/2021 Burden Per Response: 1.8 hours

NOTICE: This report is mandatory under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

RESPONSE DUE:

Within I hour of the incident, submit Schedule 1 and lines M - Q in Schedule 2 as an Emergency Alert report if criteria 1-8 are met.

Within 6 hours of the incident, submit Schedule 1 and lines M - Q in Schedule 2 as a Normal Report if only criteria 9-12 are met.

By the later of 24 hours after the recognition of the incident OR by the end of the next business day submit Schedule 1 & lines M - Q in Schedule 2 as a System Report if criteria 13-24 are met. Nota 4 00pm local time will be considered the end of the business day

Submit updates as needed and/or a final report (all of Schedules 1 and 2) within 72 hours of the incident.

For NERC reporting entities registered in the United States; NERC has approved that the form OE-417 meets the submittal requirements for NERC. There may be other applicable regional, state and local reporting requirements.

METHODS OF FILING RESPONSE

(Retain a completed copy of this form for your files.)

Online:

Submit form via online submission at: https://www.oe.netl.doe.gov/OE417/

FAX:

FAX Form OE-417 to the following facsimile number: (202) 586-8485.

Alternate:

If you are unable to submit online or by fax, forms may be e-mailed to doebgeoc@fin.doe.gov, or call and report the information to the

following telephone number: (202) 586-8100.

SCHEDULE 1 -- ALERT CRITERIA

(Page 1 of 4)

Criteria for Filing (Check all that apply)
See Instructions For More Information

	See Instructions for More information
	1. [] Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations
	2. [X] Cyber event that causes interruptions of electrical system operations
EMERGENCY ALERT File within 1-Hour	3. [] Complete operational failure or shut-down of the transmission and/or distribution electrical system
If any box 1-3 on the right is checked, this form must be	4. [] Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system
filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on	5. [] Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident
Line A below.	6. [] Firm load shedding of 100 Megawatts or more implemented under emergency operational policy
	7. [] System-wide voltage reductions of 3 percent or more
	8. [] Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System
NORMAL REPORT	
File within 6-Hours	9. [] Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems
If any box 9-12 on the right is	
checked AND none of the	10. [X] Cyber event that could potentially impact electric power system adequacy or reliability
boxes 1-8 are checked, this form must be filed within 6	11. [] Loss of electric service to more than 50,000 customers for 1 hour or more
hours of the incident; check	11.1 1 Toss of electric service to more man 30,000 contouners for a north or more
Normal Report (for the Alert Status) on Line A below.	12. [] Fuel supply emergencies that could impact electric power system adequacy or reliability

	3/1/2019 3/32/00 FINI SUBJURGED TO DOE						
	SCHEDULE 1 ALERT CRITERIA CONTINUED (Page 2 of 4)						
	13. [] Damage or destruction of a Facility within its Reliability Coordinator Area, Balancing Authority Area or Transmission Operator Area that results in action(s) to avoid a Bulk Electric System Emergency.						
	14. [] Damage or destruction of its Facility that results from actual or suspected intentional human action.						
	15. [] Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.						
SYSTEM REPORT File within 1-Business Day	16. [] Physical threat to its Bulk Electric System control center, excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control center. Or suspicious device or activity at its Bulk Electric System control center.						
If any box 13-24 on the right is checked AND none of the boxes 1-12 are checked, this	17. [] Bulk Electric System Emergency resulting in voltage deviation on a Facility; A voltage deviation equal to or greater than 10% of nominal voltage sustained for greater than or equal to 15 continuous minutes.						
form must be filed by the later of 24 hours after the recognition of the incident OF	entities with previous year's peak demand less than or equal to 3,000 Megawatts						
by the end of the next business day. Note 4.00pm local time will be considered the end of	19. [] Total generation loss, within one minute of: greater than or equal to 2,000 Megawatts in the Eastern or Western Interconnection or greater than or equal to 1,400 Megawatts in the ERCOT Interconnection.						
the business day. Check System Report (for the Alert	20. [] Complete loss of off-site power (LOOP) affecting a nuclear generating station per the Nuclear Plant Interface Requirements.						
Status) on Line A below.	21. [] Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).						
	22. [] Umplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.						
	23. Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability affecting its staffed Bulk Electric System control center for 30 continuous minutes or more.						
	24. [] Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.						
	nurred after filing the initial report, re-file the form with the changes and check Update (for the Alert Status) on Line A below.						
	in 72 hours of the incident with the latest information and Final (Alert Status) checked on Line A below, unless updated						
NO.							
A. Alert Status (check	Emergency Alert Normal Report System Report Update Final [X] [1] [1] [1] [Henry 6 Hours 1 Prepare Day As required 72 Hours						

sPower B. Organization Name

2180 South 1300 East Suite 600 Salt Lake City Utah 84106

Address of Principal Business Office C.

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		(Page 3 of 4) INCIDENT AND DISTURBAN	CEDATA			
D.	Geographic Area(s) Affected (County, State)	California: Kern County, Los Angele	s County; Utah: 5	Salt Lake County;	Wyomin	
E.	Date/Time Incident Began (mm-dd-yy/hh mm) using 24-hour clock	120	<u>mm [</u>] Eastern [] Pacific [] Cen	ska [] Hawaii
F.	Date/Time Incident Ended (mm-dd-yy/ hh:mm) using 24-hour clock	<u>03 - 05 -2019 / 18 :</u> mo dd yy hh	_57_ [mm [] Eastem [] Pacific [] Cen] Ala	r. m
G.	Did the incident/disturbance originate in your system/area? (check one)	Yes []	No []			Unknown [X]
H.	Estimate of Amount of Demand Involved (Peak Megawatts)		Zero [X]			Unknown []
I.	Estimate of Number of Customers Affected		Zero [X]			Unknown []

Check all that apply	
J. Cause K. Impact	L. Action Taken
■ Additional Information/Comments:	Shed Firm Load: Load shedding of 100 MW or more implemented under emergency operational policy (manually or automatically via UFLS or remedial action scheme) Public appeal to reduce the use of electricity for the purpose of maintaining the continuity of the electric power system Implemented a warning, alert, or contingency plan Voltage reduction Shed Interruptible Load Repaired or restored Mitigation implemented Other

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SCHEDULE 2 - NARRATIVE DESCRIPTION

(Page 4 of 4)

Information on Schedule 2 will not be disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act, e.g., exemptions for confidential commercial information and trade secrets, certain information that could endanger the physical safety of an individual, or information designated as Critical Energy Infrastructure Information.

		information designated as Critical Energy Infrastructure Information.
	NAME OF OFFICE	IAL THAT SHOULD BE CONTACTED FOR FOLLOW-UP OR ANY ADDITIONAL INFORMATION
M.	Name with probe direct stricks	Lucas Root
Man.	Title Annighter watery the win	Director, Operations
O.	Telephone Number	(801)-(679)-(3527)
00 P . 20	FAX Number	
₩ Q .™	E-mail Address	A make a licottospower.com to the last
Proving mitigation invests electric (show be suppleeds after R. N.	le a description of the incident a tion actions taken, equipment of igations. Be sure to identify; the cal system separation (and if the in by capacity type and voltage so plied to meet the requirement; the to be filed. Check the Final hose letection that a criterion was measurative:	and actions taken to resolve it. Include as appropriate, the cause of the incident/disturbance, change in frequency, lamaged, critical infrastructures interrupted, effects on other systems, and preliminary results from any estimate restoration date, the name of any lost high voltage substations or switchyards, whether there was any ere were, what the islanding boundaries were), and the name of the generators and voltage lines that were lost size grouping). If necessary, copy and attach additional sheets. Equivalent documents, containing this information can sincludes the NERC EOP-004 Disturbance Report. Along with the filing of Schedule 2, a final (updated) Schedule 1 or n line A for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 72 hours
	imated Restrication Date for all o Can Receive Power	Affected Customers mo dd yy.
		Pioneer, Beacon 4, ABSR, DSR1, DSR2, Beacon 1, Elevation C, WABSRB, Bayshore A, Bayshore B, Bayshore C, and Solverde"

U. Natify NERC/E-ISAC

NERC is an entity that is certified by the Federal Energy Regulatory Commission to establish and enforce reliability standards for the bulk power system but that is not part of the Federal Government. This information would be submitted to help fulfill the respondent's requirements under NERC's reliability standards.

If approval is given to alert NERC and/or E-ISAC the Form will be emailed to systemawareness@nerc.net and/or operations@cisac.com when it is submitted to DOE. DOE is not responsible for ensuring the receipt of these emails by NERC and/or E-ISAC.

M Notify NERC | M Notify E-ISAC

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FAX.

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Alternate:

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following telephone number (202) 586-8100.

SCHEDULE 1 -- ALERT CRITERIA

(Page 1 of 4)

	Criteria for Filing (Check all that apply) See Instructions For More Information
	1. [] Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations
	2. [X] Cyber event that causes interruptions of electrical system operations
EMERGENCY ALERT File within 1-Honr	3. [] Complete operational failure or shut-down of the transmission and/or distribution electrical system
If any box 1-8 on the right is checked, this form must be	4. [] Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise hlacked out area or within the partial failure of an integrated electrical system
filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on	5. [] Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident
Line A below.	6. [] Firm load shedding of 100 Megawatts or more implemented under emergency operational policy
	7. [] System-wide voltage reductions of 3 percent or more
	8.[] Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System
NORMAL REPORT	
File within 6-Hours	9. [] Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems
If any box 9-12 on the right is checked AND none of the boxes 1-8 are checked, this	10. [X] Cyber event that could potentially impact electric power system adequacy or reliability
form must be filed within 6 hours of the incident; check	11. [] Loss of electric service to more than 50,000 customers for 1 hour or more
Normal Report (for the Alert Status) on Line A below	12. [] Fuel supply emergencies that could impact electric power system adequacy or reliability

			SCHEI	DITE 1 A	LERT CRI	ITERIA C	CONTINUE	D			
			ocin.	JOEE 1 1	(Page 2 of						
		13. [] Damage or destruction of a Facility within its Reliability Coordinator Area, Balancing Authority Area or Transmission Operator Area that results in action(s) to avoid a Bulk Electric System Emergency.									
		14. [] Damage or destru	ction of its Facility t	hat results from actu	al or suspected inten	tional human action.				
		15. [] Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.									
	STEM REPORT ithin 1-Business Day	16. [Physical threat to has the potential t Electric System c	o degrade the norma	tem control center, of the co	excluding weather or introl center. Or susp	natural disaster rela icious device or acti	ted threats, which vity at its Bulk			
check	ox 13-24 on the right is ted AND none of the	17. [ation on a Facility: A than or equal to 15 c		qual to or			
form m of	1-12 are checked, this ust be filed by the later 24 hours after the	18. [m loads for 15 minut al to 3,000 Megawan		ngle incident for			
by the e	tion of the incident <u>OR</u> and of the next business ota 4:00pm local time considered the end of	19. [] Total generation I Interconnection o	oss, within one mini r greater than or equ	ate of greater than o al to 1,400 Megawa	r equal to 2,000 Meg tis in the ERCOT Int	awatts in the Eastern erconnection.	or Western			
the l System	ousiness day, Check a Report (for the Alert	20. [] Complete loss of off-site power (LOOP) affecting a nuclear generating station per the Nuclear Plant Interface Requirements.									
June	Status) on Line A below,		21. [] Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).								
		22. [] Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.									
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		24. [] Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.									
If signif	icant changes have occur	red after	filing the initial repo	rt, re-file the form w	ith the changes and	check Update (for th	e Alert Status) on Li	ne A below.			
	n must be re-filed within										
LINE											
NO.		1.00									
A.	Alert Status (check one	e)		Emergency Alert [] 1 Hour	Normal Report [] 6 Hours	System Report [] 1 Business Day	Update [X] As required	Final [] 72 Hours			
B. Organization Name			sPower								
				2180 South 1300	East Suite 600 Sa	alt Lake City Utah 8	34106				
	Control of the Contro			2,00 2,001 1,000							
C. Address of Principal Business Office											

ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

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C	CHEDIII	L	1	ALERT NOTICE
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(Page 3 of 4) INCIDENT AND DISTURBANCE DATA California: Kern County, Los Angeles County; Utah: Salt Lake County; Wyoming: Converse County; Geographic Area(s) Affected D. (County, State) 03 - 05 - 2019 / 09 : 12 no dd yy hh mm] Eastern] Central [X] Mountain Date/Time Incident Began E.] Pacific Alaska] Hawaii (mm-dd-yy/hh-mm) using 24-hour clock уу [X] Mountain] Central] Eastern Date/Time Incident Ended 03 - 05 - 2019 / 18 : 57 F. Pacific Alaska [] Hawaii dd hh (mm-dd-yy/ hh-mm) using 24-hour clock уу. mm Did the incident/disturbance originate in your Unknown [X] Yes[] No[] G. system/area? (check one) Estimate of Amount of Demand Involved Zero [X] Unknown [] H. (Peak Megawatts) Unknown [Zero[X] Estimate of Number of Customers Affected I,

SCHEDULE 1 — TYPE OF EMERGENCY Check all that apply						
J. Cause K. Impact I. Action Taken						
None Control center loss, failure, or evacuation Loss or degradation of control center monitoring or communication systems Damage or destruction of a facility Electrical system separation (islanding) Complete operational failure or shutdown of the transmission and/or distribution system Major transmission system interruption (three or more BES elements) Major distribution system interruption (three or more BES elements) Major distribution system interruption (three or more BES elements) Uncontrolled loss of 200 MW or more of firm system loads for 15 minutes or more Loss of electric service to more than 50,000 customers for 1 hour or more System-wide voltage reductions or 3 percent or more Voltage deviation on an individual facility of ≥10% for 15 minutes or more Inadequate electric resources to serve load Comparising appropriate page 1400 MW or more Inadequate electric resources to serve load Comparising appropriate page 1400 MW or more Inadequate electric resources to serve load Comparising appropriate page 1400 MW or more Inadequate electric resources to serve load Comparising appropriate page 1400 MW or more Inadequate electric resources to serve load Inadequate electric resources to serve load	□ None □ Shed Firm Load: Load shedding of 100 MW or more implemented under emergency operational policy (manually or automatically via UFLS or remedial action scheme) □ Public appeal to reduce the use of electricity for the purpose of maintaining the continuity of the electric power system □ Implemented a warning, alert, or contingency plan □ Voltage reduction □ Shed Interruptible Load □ Repaired or restored □ Mitigation implemented ☑ Other ☑ Additional Information/Comments After learning of the potential cause of the reboot, sPower started testing and deployment of an update to remove the exploited vulnerability					

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SCHEDULE 2 - NARRATIVE DESCRIPTION

(Page 4 of 4)

Information on Schedule 2 will not be disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act, e.g.,

M. Name LUGAS ROOf No. Title Director, Operations	•	xemptions for confidential comm	vercial information and trade secrets, certain information that could endanger the physical safety of an individual, or information designated as Critical Energy Infrastructure Information.
M. Name Users Root		NAME OF OFFIC	
No. Title	M		
C. Telephone Number (2011-679)-6527 P. FAX Number (2) E- small Address (3011-679)-6527 Provides description of the incident and actions taken to resulve to trouble group of the provides description of the incident and actions taken, equipment damaged, critical infrastructures interrupted, effects on other tystems, and preliminary results from any equipment damaged, critical infrastructures interrupted, effects on other tystems, and preliminary results from any observation (and if there were, what the talanting boundaries were), and the name of any level taken of the generators and vallage lines that were lost (below no requirement; this includes the NERC EDP 004 Disturbance Report. Along with the filling of Schedule 2, a final (updrated) Schedule 1 notes the requirement; this includes the NERC EDP 004 Disturbance Report. Along with the filling of Schedule 2, a final (updrated) Schedule 1 notes to be filled. Check the Final box on line A for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 72 hours offer detection that a criterion was met. R. Narrative: Power is a Generator Owner and Cenerator Operator of wind and solar generation asserts that are operator from a Control Center in Salt Lake City, UT. (b) (7)(E) These updates are ongoing. Power is a Generator Owner and Cenerator Operator of wind and solar generation asserts that are operator from a Control Center in Salt Lake City, UT. (b) (7)(E) Power is a Generator Owner and Cenerator Operator of wind and solar generation of the manufacture of the manufacture of the solar power is a Generator Owner and Cenerator Operator of wind and solar generator of the manufacture of the Center of the Center of the Center of the Incident of the Center of th			
P. EAX Number Q. Email Address Inort@Supower com Provide a description of the incident and actions taken to results it. Include as appropriate, the cause of the incident/disturbance, change in frequency, natigation actions taken, equipment damaged, critical laid arstructures interropted, effects on other systems, and preliminary results from any investigations. Be sure to good if there were, what the slanding boundaries were, effects on other systems, and preliminary results from any investigations. Be sure to good if there were, what the slanding boundaries were, and the name of the generators value like there is any observable and solving size grouping). If necessary, copy and attach additional sheets. Equivalent documents, contaming this information can be supported to the equipment fits includes the NREC EDEP OND Disturbance Report. Along with the tiling of Schedule 2, a final (updated Schedule 2) are later than 72 hours. After describin that a criterion was met. R. Narrative: Proves it is Generator Owner and Generator Operator of wind and solar generation assets that are operated from a Coptrol Center in Sah Like City, UT. (b) (7)(E) These updates are origing. S. Estimated Restoration Data for all Affected Custousers Who Can Receive Power These updates are origing. S. Estimated Restoration Data for all Affected Custousers Who Can Receive Power Proves it is Generator Owner and Generator Operator of wind and solar generation assets that are operated from a Coptrol Center in Sah Like City, UT. (b) (7)(E) These updates are origing. These of the Custousers Who Can Receive Power These updates are origing. These original are original affected Custousers These updates are original and the complete of the provided on the Form being submitted to the North Arowice Electric			
Provide a description of the incident and actions taken to resolve it. Include as appropriate, the cause of the incident/disturbance, change in frequency, provide a description actions taken, equiposent damaged, critical infrastructures interrupted, effects on other systems, and preliminary results from any more interesting and the provident of the server in the control of the provident of the server in the control of the provident of the providence of the provident of the prov	P. 400		
missigation actions taken, equipment damaged, critical infrastructures interrupted, effects on other systems, and preliminary results from any messigations. Be sore to identify; the estimate restoration date, the name of any lost high voltage substations or switchyards, whether there was any electrical system separation (and if there were, what the islanding boundaries were), and the name of the generators and vultage lines that were lost (shown by capacity type and voltage size grouping). If accessary, copy and attach additional sheets. Equivalent comess, containing this information can be supplied to meet the requirement; this uncludes the NERC E0P-004 Disturbance Report. Along with the filling of Schedule 2, a final (updated) Schedule 1 needs to be filled. Check the firm) bor on line A for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 72 hours after detection that a criterion was met. R. Narrative: Power is a Generator Owner and Generator Operator of wind and solar generation asserts that are operated from a Control Center in Sah Lake City, UT. (b) (7)(E) These updates are orgoing. S. Estimated Restoration Date for all Affected Customers Who Can Receive Power T. Name of Assets Impacted Schedule 2. Schedule 3. Schedule 4. Schedule 5. Schedule 6. Schedule 7. Schedule 7. Select if was approve of all of the information provided on the Form being submitted to the North America Electric			THOO HOURS POWER TOWN
R. Narrative: pPower is a Generator Owner and Cenerator Operator of wind and solar generation asserts that are operated from a Coptrol Center in Salt Lake City, UT. (b) (7)(E) These updates are copping. These updates are copping. S. Eritimated Restoration Date for all Affected Customers Who Can Receive Power Pioneer, Beacon 4, ABSR, DSR1, DSR2, Beacon 1, Elevation C, WABSRB, Bayshore A, Bayshore B, Bayshore C, Solverde, firewall at a Power headquarters T. Name of Asserts Impacted Select if you approve of all of the information provided on the Form being submitted to the North Aquerica Electric.	mitiga invest electri (show be sup needs	ation actions taken, equipment or igations. Be some to identify: the ical system separation (and if the in by capacity type and voltage op- plied to meet the requirement; the to be filed. Check the Final bo	damaged, critical infrastructures interrupted, effects on other systems, and preliminary results from any the estimate restoration date, the name of any lost high voltage substations or switchyards, whether there was any tiere were, what the islanding boundaries were), and the name of the generators and vultage lines that were lost size grouping). If necessary, copy and attach additional sheets. Equivalent documents, containing this information can is includes the NERC EOP-004 Disturbance Report. Along with the filing of Schedule 2, a final (updated) Schedule 1 x on line A for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 72 hours
S. Estimated Restoration Date for all Affected Customers Who Can Receive Power Pioneer, Beacon 4, ABSR, OSR1, DSR2, Beacon 1, Elevation C, WABSRB, Bayshore A, Bayshore C, Solveride, figured at sPower headquarters. T. Name of Assets Impacted Select if you approve of all of the information provided on the Form being submitted to the North America Electric.			
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S. Estimated Restoration Date for all Affected Customers Who Can Receive Power. Pioneer, Beacon 4, ABSR, DSR1, DSR2, Beacon 1, Elevation C, WABSRE, Bayshore A, Bayshore B, Bayshore C, Solverde, firewall at sPower headquarters. T. Name of Assets Impacted Select if you approve of all of the information provided on the Form being submitted to the North America Electric			
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Reliability Corporation (NERC) and/or the Electricity Information Sharing and Analysis Center (E-ISAC)	West !		Reliability Corporation (NERC) and/or the Electricity Information Sharing and Analysis Center (E-ISAC)
NERC is an entity that is certified by the Federal Energy Regulatory Commission to establish and enforce reliability	N. Vielle		NERC is an entity that is certified by the Federal Energy Regulatory Commission to establish and enforce reliability
transaction the bulk power system but that is not part of the Federal Government. This information would be	4		standards for the bulk power system but that is not part of the Federal Government. This information would be submitted to help fulfill the respondent's requirements under NERC's rehability standards.
	11.1		submitted to help fulfill the respondent's requirements under NERC's rehability standards.

U. Notify NERC/E-ISAC

If approval is given to alert NERC and/or E-ISAC the Form will be emailed to systemawareness@nerc.net and/or operations@eisac.com when it is submitted to DOE. DOE is not responsible for ensuring the receipt of these emails by NERC and/or E-ISAC:

M Notify NERC | M Notify E-ISAC

Document 3

From:

Tarduogno, Matthew

To:

Evans, Karen S; Lotto, Adrienne

Cc: Subject: Kenneth Buell (Kenneth.Buell@hq.doe.gov); Kumar, Puesh

Sunject Date: Follow-Up on Denial of Service Incident Friday, March 08, 2019 5:S9:00 PM

OFFICIAL USE ONLY

All,

I wanted to quickly follow-up on the denial-of-service (DoS) incident experienced by sPower, a company that owns and operators solar and wind generation assets in several states, that we noted this morning. I spoke with the operations manager of sPower this morning and the E-ISAC has also been in contact with the company.

On March 5, sPower noted a series of brief communication outages between their control center and their remote sites. Upon further investigation, the communications outages were determined to have been caused by firewall reboots. After consulting with Cisco, the firewall manufacture, it was determined that the firewall reboots were caused by a DoS attack exploding a known vulnerability. Cisco recommended a firmware update, which sPower has been deploying across their system, after testing for compatibility. The DoS incdent was observed intermittently over a 12 hour period and no further activity has been observed since this time. sPower has reviewed log files and has found no evidence of a breach beyond the DoS attack. Additionally, the incident did not have any impacts on operations.

When I spoke with sPower they did not expect to need any additional support or have any ongoing concerns; however, they will contact us if there are any issues. (b) (7)(E)

We have been providing DOE's Office of Intelligence and

Counterintelligence with updates and they are ready to investigate any indicators, as appropriate, and have been checking for any related incidents. We will work with IN and the ISACs to provide appropriate information to the sector as available.

Please let me know if you have any questions.

Best Regards,

-Matt

Matthew T. Tarduogno

Infrastructure Security & Energy Restoration

Office of Cybersecurity, Energy Security, & Emergency Response

U.S. Department of Energy

Office: 202-586-2892 | Mobile: (b) (6)

Matthew.Tarduogno@hq.doe.gov

OFFICIAL USE ONLY

ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

OMB No. 1901-0288 Approval Expires: 05/31/2021 Burden Per Response: 1.8 hours

NOTICE: This report is mandatory under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitions, or fraudulent statements as to any matter within its jurisdiction.

RESPONSE DUE:

Within 1 hour of the incident, submit Schedule 1 and lines M - Q in Schedule 2 as an Emergency Alert report if criteria 1-8 are met.

Within 6 hours of the incident, submit Schedule 1 and lines M - Q in Schedule 2 as a Normal Report if only criteria 9-12 are met.

By the later of 24 hours after the recognition of the incident OR by the end of the next husiness day submit Schedule 1 & lines M - Q in Schedule 2 as a System Report if criteria 13-24 are met. Note 4 00pm local time will be considered the end of the business day

Submit updates as needed and/or a final report (all of Schedules 1 and 2) within 72 hours of the incident.

For NERC reporting entities registered in the United States, NERC has approved that the form OE-417 meets the submittal requirements for NERC. There may be other applicable regional, state and local reporting requirements.

METHODS OF FILING RESPONSE

(Retain a completed copy of this form for your files.)

Online: FAX:

Submit form via online submission at: https://www.oe.netl.doe.gov/OE417/

FAX Form OE-417 to the following facsimile number. (202) 586-8485.

Alternate:

If you are unable to submit online or by fax, forms may be e-mailed to dochgeoc@lin.doe.gov, or call and report the information to the

following telephone number: (202) 586-8100.

SCHEDULE 1 -- ALERT CRITERIA

(Page 1 of 4)

Criteria for Filing (Check all that apply) See Instructions For More Information

	T. T
	1. [] Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations
EMERGENCY ALERT File within 1-Hour	2. [X] Cyber event that causes interruptions of electrical system operations 3. [] Complete operational failure or shut-down of the transmission and/or distribution electrical system
THE WHIRE I-HOUT	
If any box 1-8 on the right is checked, this form must be	4. [] Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system
filed within 1 hour of the incident; check Emergency Alert (for the Alert Status) on	5. [] Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident
Line A below:	6. [] Firm load shedding of 100 Megawatts or more implemented under emergency operational policy
	7. [] System-wide voltage reductions of 3 percent or more
	8. [] Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System
NORMAL REPORT File within 6-Hours	9. [] Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems
If any hox 9-12 on the right is checked AND none of the	10. [X] Cyber event that could potentially impact electric power system adequacy or reliability
boxes 1-8 are checked, this form must be filed within 6 hours of the incident; check	11. [] Loss of electric service to more than 50,000 customers for 1 hour or more
Normal Report (for the Alert Status) on Line A below.	12. [] Fuel supply emergencies that could impact electric power system adequacy or reliability

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			SCHEI	DILE 1 A	LERT CR	ITERIA C	CONTINUE	D	
		SCHEDULE 1 ALERT CRITERIA CONTINUED (Page 2 of 4)							
			13. [] Damage or destruction of a Facility within its Reliability Coordinator Area, Balancing Authority Area or Transmission Operator Area that results in action(s) to avoid a Bulk Electric System Emergency.						
SYSTEM REPORT File within 1-Business Day If any box 13-24 on the right is checked AND none of the boxes 1-12 are checked, this form must be filed by the later of 24 hours after the recognition of the incident <u>OR</u> by the end of the next business day. Note 4:00pm local time will be considered the end of the business day. Check System Report (for the Alert Status) on Line A below.		14. [] Damage or destruction of its Facility that results from actual or suspected intentional human action.							
		15. [] Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.							
		16. [] Physical threat to its Bulk Electric System control center, excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control center. Or suspicious device or activity at its Bulk Electric System control center.							
		17. [] Bulk Electric System Emergency resulting in voltage deviation on a Facility, A voltage deviation equal to or greater than 10% of nominal voltage sustained for greater than or equal to 15 continuous minutes.							
		18. [] Uncontrolled loss of 200 Megawatts or more of firm system loads for 15 minutes or more from a single incident for entities with previous year's peak demand less than or equal to 3,000 Megawatts							
		19. [] Total generation loss, within one minute of: greater than or equal to 2,000 Megawatts in the Eastern or Western Interconnection or greater than or equal to 1,400 Megawatts in the ERCOT Interconnection.							
		20. [] Complete loss of off-site power (LOOP) affecting a nuclear generating station per the Nuclear Plant Interface Requirements.							
		21. [] Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).							
		22. [] Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.							
		23. [] Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability affecting its staffed Bulk Electric System control center for 30 continuous minutes or more.							
		24. [] Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.							
If signif	icant changes have occur	rred after	filing the initial repo	ort, re-file the form w	ith the changes and	check Update (for th	e Alert Status) on Li	ne A below.	
	n must be re-filed within								
LINE									
NO									
A.	Alert Stätus (check one	e)		Emergency Alert [] I Hour	Normal Report [] 6 Hours	System Report [] 1 Business Day	Update [] As required	Final [X] 72 Hours	
В.	Organization Name		-	sPower		<u> </u>	<u></u>		
				2180 South 1300	East Suite 600 S	alt Lake City Utah 6	34106		

C.

Address of Principal Business Office

ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

OMB No. 1901-0288 Approval Expires: 05/31/2021 Burden Per Response: 1.8 hours

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(Page 3 of 4) INCIDENT AND DISTURBANCE DATA California: Kern County, Los Angeles County; Utah: Salt Lake County; Wyoming: Converse County; Geographic Area(s) Affected D. (County, State) <u>03 - 05 - 2019 / 09 : 12</u> [X] Mountain Date/Time Incident Began] Eastern] Central E. Hawaii Pacific] Alaska (mm-dd-yy/hh mm) using 24-hour clock dd уу hh Eastern | Central [X] Mountain Date/Time Incident Ended 03 - 05 - 2019 / 18 : 57 F.] Alaska Pacific (mm-dd-yy/ hh:mm) using 24-hour clock dd уу hh mm [] Hawaii Did the incident/disturbance originate in your Yes [] No[] Unknown [X] G. system/area? (check one) Estimate of Amount of Demand Involved Unknown [] Zero [X] H. (Peak Megawatts) Zero [X] Unknown [I. Estimate of Number of Customers Affected

SCHE	OULE 1 — TYPE OF EMERGEN Check all that apply	O I	
J. Cause	K. Impact	L. Action Taken	
Unknown Physical attack Threat of physical attack Vandalism Theft Suspicious activity Cyber event (information technology) Experience of the supply emergencies, interruption, or deficiency Generator loss or failure not due to fuel supply interruption or deficiency or transmission failure Transmission equipment failure (not including substation or switchyard) Failure at high voltage substation or switchyard Weather or natural disaster Operator action(s) Other Additional Information/Comments: Initial assessment revealed that a fivewall exploit was likely utilized to execute a denial of service attack that caused the firewalls to reboot leading to an approximately 5 minute or less communications outage	None Control center loss, failure, or evacuation Loss or degradation of control center monitoring or communication systems Damage or destruction of a facility Electrical system separation (islanding) Complete operational failure or shutdown of the transmission and/or distribution system Major transmission system interruption (three or more BES elements) Major distribution system interruption Uncontrolled loss of 200 MW or more of firm system loads for 15 minutes or more Loss of electric service to more than 50,000 customers for 1 hour or more System-wide voltage reductions or 3 percent or more Voltage deviation on an individual facility of ≥10% for 15 minutes or more Inadequate electric resources to serve load Generating capacity loss of 1,400 MW or more Generating capacity loss of 2,000 MW or more Complete loss of off-site power to a nuclear generating station Other Additional Information/Comments: Firewell rebooks resulted in bitef communications outages (approximately 5 minutes or less) between field devices at sites and between the sites and aPower's Control Center	□ None □ Shed Firm Load: Load shedding of 100 MW or more implemented under emergency operational policy (manually or automatically via UFLS or remedial action scheme) □ Public appeal to reduce the use of electricity for the purpose of maintaining the continuity of the electric power system □ Implemented a warning, alert, or contingency plan □ Voltage reduction □ Shed Interruptible Load □ Repaired or restored □ Mitigation implemented ☑ Other ☑ Additional Information/Comments After learning of the potential cause of the reboot, sPower started testing and deployment of an update to remove the exploited vulnerability	

ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

OMB No. 1901-0288 Approval Expires: 05/31/2021 Burden Per Response: 1.8 hours

SCHEDULE 2 - NARRATIVE DESCRIPTION

(Page 4 of 4)

Information on Schedule 2 will not be disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act, e.g., exemptions for confidential commercial information and trade secrets, certain information that could endanger the physical safety of an individual, or information designated as Critical Energy Infrastructure Information.

Mar Sept Mary		information designated as Critical Energy Infrastructure Information.	
	NAME OF OFFICIAL	THAT SHOULD BE CONTACTED FOR FOLLOW-UP OR ANY ADDITIONAL INFORMATION	
M	Name	Lucas Root	
N.	Tule	Director, Operations	4867
Ö.	Telephone Number	(801)-(679)-(3527)	113
Р.	FAX Number		i ji da
Q.	E-mail Address	froot@spower.com	Will.
investi electri (show be sup needs	tion actions taken, equipment than gations. Be sure to identify: the es- cal system separation (and if there a by capacity type and voltage size plied to meet the requirement; this is	ctions taken in resolve it. Include as appropriate, the cause of the incident/disturbance, change in frequency ged, critical infrastructures interrupted, effects an other systems, and preliminary results from any mate restoration date, the name of any lost high voltage substations or switchyards, whether there was any ere, what the islanding boundaries were), and the name of the generators and voltage lines that were lost rouping). If necessary, copy and attach additional sheets. Equivalent documents, containing this information caudes the NERC EOP-004 Disturbance Report. Along with the filing of Schedule 2, a final (updated) Schedule 1 inc A for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 72 hours	111
R. N	rrative:		
sPower	is a Generalor Owner and Generator O	ator of wind and solar generation assets that are operated from a Control Center in Salt Lake City, UT. (b) (7)(E)	
	· · · · · · · · · · · · · · · · · · ·		
Q Tak	mated Restoration Date for all Af		
	Can Receive Power	mo dd yy	
T. Nar	ne of Assets Impacted	Pioneer, Beacon 4, ABSR, DSR1, DSR2, Beacon 1, Elevation C, WABSRB, Bayshore A, Bayshore B, Bayshore C, Solverde, firewall at sPower headquarters	
		Select if you approve of all of the information provided on the Form being submitted to the North America Electric Reliability Corporation (NERC) and/or the Electricity Information Sharing and Analysis Center (E-ISAC) NERC is an entity that is certified by the Federal Energy Regulatory Commission to establish and enforce reliabilist standards for the bulk power system but that is not part of the Federal Government. This information would be submitted to help fulfill the respondent's requirements under NERC's reliability standards.	

U. Nutify NERC/E-ISAC

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☑ Notify NERC | ☑ Notify E-ISAC